#7
1646
BOX SEQ

Combined Response to Notice to Comply and Fee Transmittal

Application Number	09/503,997
Confirmation Number	5507
Filing Date	June 27, 2000
First Named Inventor	Toshio Miyata
Examiner	P. Mertz
Group Art	1646
Attorney Docket No.	SHIM004

ADDRESS TO: Assistant Commissioner for Patents
Washington, D.C. 20231

This communication is responsive to the Notice to Comply dated September 27, 2001, which set a one month period for filing this response, making this response due on October 27, 2001.

Pursuant to 37 CFR 1.821(e), applicant submits herewith a Sequence Listing in computer readable form to be filed in the subject application. In addition, applicant submits a paper copy of the Sequence Listing as required under 37 CFR 1.821(c). The Sequence Listing was prepared with the software FASTSEQ, and conforms with the Patent Office guidelines.

As required by 37 CFR 1.82(f), the information in the hard copy and computer readable form are identical. Applicant respectfully submits that the subject application is in adherence to 37 CFR 1.821 - 1.825.

I hereby state that this submission, filed in accordance with 37 CFR 1.821(g), does not contain new material.

Completion of fees as calculated below (duplicate copy enclosed)

Extension of time from _____ to _____ _____

Other Copy of Notice to Comply; Return Receipt Postcard _____

TOTAL $ -

The Commissioner is authorized to charge any fees which may be required, or credit any overpayment to Deposit Account 50-0815. If additional fees are required, including extensions of time, please consider this a petition therefore.

SIGNATURE OF APPLICANT, ATTORNEY OR AGENT REQUIRED

Name (Print/Type)	Karl Bozicevic			Registration No.	28,807
Signature				Date	Oct. 22, 2001
Firm Name	Bozicevic, Field & Francis LLP		Address	200 Middlefield Road, Suite 200	
City	Menlo Park	State	California	zip	94025
Telephone	650-327-3400		Facsimile	650-327-3231	

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope.

Name (Print/Type)	Kimberly W. Zuehlke	Signature	Kimberly W Zuehlke	Date	10/22/01

Application No.: 09/508,979

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.

☒ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).

☒ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).

☐ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing."

☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).

☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).

☐ 7. Other: _____

Applicant Must Provide:

☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".

☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.

☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216
For CRF Submission Help, call (703) 308-4212
For PatentIn software help, call (703) 308-6856

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

SEQUENCE LISTING

<110> Miyata, Toshio

<120> MEGSIN PROTEIN

<130> SHIM004

<140> 09/508,997
<141> 2000-06-27

<150> PCT/JP98/04269
<151> 1998-09-22

<150> 9/275302
<151> 1997-09-22

<160> 44

<170> FastSEQ for Windows Version 4.0

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<212> DNA
<213> Homo sapiens

a1

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<223> n is an unknown and may be any natural amino acid

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tcctctargg umtasasasn gngyasngya snvahhsrsr ctgagcctct tcgctgccct 180
ggccctggtc cgcttgggcg ctcaagatus ruhaaaauaa uvaargugya agnasgactc 240
cctctctcag attgataagt tgcttcatgt taacactgcc tcaassrusr gnasysuuhs 300
vaasnthraa srggatatgg aaactcttct aatagtcagt cagggctcca gtctcaactg 360
gytyrgyasn srsrasnsrg nsrgyugnsr gnuaaaagag ttttttctga tataaatgca 420
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yrgyhhsysg actacattga gtgtgccgaa aaattatacg atgccaaagt ggagcgaast 600
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aaaatgaaac acatggcaaa atcaagaacg tgattggtga atrvaguasn guthrhsgyy 780
sysasnvagy guggtggcat aagctcatct gctgtaatgg tgctggtgaa tgctgtgtac 840
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caagagcgaa accataaath ysgyystrgn sraahthrys srguthrasn tgccatttca 960
aatctcccaa gtgctctggg aaggcagtcg ccatgatgcy shshyssrry scyssrgyys 1020
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gnguargysh asnusrvagu asrsrmtaag attcttgagc tcagatacaa tggtggcata 1140
aacatgtacg ttctgysugu uargtyrasn gygyasnmtt yrvauctgcc tgagaatgac 1200
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gctmtmthsy ssrtyrguva thrgugugyt hrguaaactg ctgccacagg aagtaatatt 1680
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gtttagagct gaccacccat tcctatttgt tatcaggaag gatthruhar gaaashsrhu 1800
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asrcysr 1867

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<211> 380
<212> PRT
<213> Homo sapiens

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20 25 30
Leu Ser Leu Phe Ala Ala Leu Ala Leu Val Arg Leu Gly Ala Gln Asp
35 40 45
Asp Ser Leu Ser Gln Ile Asp Lys Leu Leu His Val Asn Thr Ala Ser
50 55 60
Gly Tyr Gly Asn Ser Ser Asn Ser Gln Ser Gly Leu Gln Ser Gln Leu
65 70 75 80
Lys Arg Val Phe Ser Asp Ile Asn Ala Ser His Lys Asp Tyr Asp Leu
85 90 95
Ser Ile Val Asn Gly Leu Phe Ala Glu Lys Val Tyr Gly Phe His Lys
100 105 110
Asp Tyr Ile Glu Cys Ala Glu Lys Leu Tyr Asp Ala Lys Val Glu Arg
115 120 125
Val Asp Phe Thr Asn His Leu Glu Asp Thr Arg Arg Asn Ile Asn Lys
130 135 140
Trp Val Glu Asn Glu Thr His Gly Lys Ile Lys Asn Val Ile Gly Glu
145 150 155 160
Gly Gly Ile Ser Ser Ser Ala Val Met Val Leu Val Asn Ala Val Tyr
165 170 175
Phe Lys Gly Lys Trp Gln Ser Ala Phe Thr Lys Ser Glu Thr Ile Asn
180 185 190
Cys His Phe Lys Ser Pro Lys Cys Ser Gly Lys Ala Val Ala Met Met
195 200 205
His Gln Glu Arg Lys Phe Asn Leu Ser Val Ile Glu Asp Pro Ser Met
210 215 220
Lys Ile Leu Glu Leu Arg Tyr Asn Gly Gly Ile Asn Met Tyr Val Leu
225 230 235 240
Leu Pro Glu Asn Asp Leu Ser Glu Ile Glu Asn Lys Leu Thr Phe Gln
245 250 255
Asn Leu Met Glu Trp Thr Asn Pro Arg Arg Met Thr Ser Lys Tyr Val
260 265 270
Glu Val Phe Phe Pro Gln Phe Lys Ile Glu Lys Asn Tyr Glu Met Lys
275 280 285
Gln Tyr Leu Arg Ala Leu Gly Leu Lys Asp Ile Phe Asp Glu Ser Lys
290 295 300
Ala Asp Leu Ser Gly Ile Ala Ser Gly Gly Arg Leu Tyr Ile Ser Arg

a' cont

305 310 315 320
Met Met His Lys Ser Tyr Ile Glu Val Thr Glu Glu Gly Thr Glu Ala
325 330 335
Thr Ala Ala Thr Gly Ser Asn Ile Val Glu Lys Gln Leu Pro Gln Ser
340 345 350
Thr Leu Phe Arg Ala Asp His Pro Phe Leu Phe Val Ile Arg Lys Asp
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<212> DNA
<213> Rattus rattus

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<223> n is an unknown and may be any natural amino acid

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gagcctaatc cgtttgggtg ctsrsrusrh thraausrua rgugyaacga ggtgactgtn 240
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shsrccatca agacaaggga attcatcgaa cagtcagcta ggactgcaat atrsrarggn 360
gyasnsrsra snsrgnugyu gntyrcaatt gaaaagagtt cttgctgaca taaactcatc 420
tcataaggat nnngnuysar gvauaaasas nsrsrhsysa saaaaactca gcattgccaa 480
tggagttttt gcagagaaag tatttgattt tysusraaas ngyvahaagu ysvahashca 540
taagagctat atggagtgtg ctgaaaactt atacaatgct aaagtghsys srtyrmtguc 600
ysaaguasnu tyrasnaays vagaaagagt tgattttaca aatgatatac aagaaaccag 660
atttaaaatt guargvaash thrasnasgn guthrarghy saataaatgg attgaaaatg 720
aaacacatgg caaaatcaag aaggtgttga snystrguas nguthrhsgy ysysysvaug 780
gggacagcag cctcagctca tcagctgtca tggtgctagt gaatgctgya ssrsrusrsr 840
sraavamtva uvaasnaagt ttacttcaaa ggcaagtgga aatcggcctt caccaagagt 900
gataccvaty rhysgyystr yssraahthr yssrasthrc tcagttgcca tttcaggtct 960
cccagcggtc ctggaaaagc agttaatusr cyshshargs rrsrgyrgyy saavaasnat 1020
gatgcatcaa gaacggaggt tcaatttgtc taccattcag gagccamtmt hsgnguarga 1080
rghasnusrt hrgngurcca atgcagattc ttgagctaca atatcatggt ggcataagca 1140
tgtacrmtgn uguugntyrh sgygysrmtt yratcatgtt gcccgaggat gacctatccg 1200
aaattgaaag caagctgagt mturguasas usrgugusry susrttccag aatctaatgg 1260
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attgcctctg gaggtcgtct ctatgtasra rgaaasusrg yaasrgygya rgutyrvatc 1560
aaagctaatg cacaagtccc tcatagaggt ctcagaagaa ggcaccsrys umthsyssru 1620
guvasrgugu gythrgaggc aactgctgcc acagaaagta acatcgttga aaagctactt 1680
cctguaathr aaaathrgus rasnvaguys uurgaatcca cggtgttcag agctgaccgc 1740
ccctttctgt ttgtcattag ggusrthrva hargaaasar grhuhvaarg aagaatggca 1800
tcatcttatt tactggcaaa gtctcgtgtc ctysasngyu hthrgyysva srcysrtgaa 1860
attctatttg gttttccata cactaacagg catgaagaaa catcataagt gaatagaatt 1920
gtaattggaa gtacatgg 1938

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<211> 380
<212> PRT
<213> Rattus rattus

<220>
<223> Xaa indicates a naturally occurring unknown amino acid

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35 40 45
Asp Cys Xaa Arg Gln Ile Asp Lys Ala Leu His Phe Ile Ser Pro Ser
50 55 60
Arg Gln Gly Asn Ser Ser Asn Ser Gln Leu Gly Leu Gln Tyr Gln Leu
65 70 75 80
Lys Arg Val Leu Ala Asp Ile Asn Ser Ser His Lys Asp Xaa Lys Leu
85 90 95
Ser Ile Ala Asn Gly Val Phe Ala Glu Lys Val Phe Asp Phe His Lys
100 105 110
Ser Tyr Met Glu Cys Ala Glu Asn Leu Tyr Asn Ala Lys Val Glu Arg
115 120 125
Val Asp Phe Thr Asn Asp Ile Gln Glu Thr Arg Phe Lys Ile Asn Lys
130 135 140
Trp Ile Glu Asn Glu Thr His Gly Lys Ile Lys Lys Val Leu Gly Asp
145 150 155 160
Ser Ser Leu Ser Ser Ser Ala Val Met Val Leu Val Asn Ala Val Tyr
165 170 175
Phe Lys Gly Lys Trp Lys Ser Ala Phe Thr Lys Ser Asp Thr Leu Ser
180 185 190
Cys His Phe Arg Ser Pro Ser Gly Pro Gly Lys Ala Val Asn Met Met
195 200 205
His Gln Glu Arg Arg Phe Asn Leu Ser Thr Ile Gln Glu Pro Pro Met
210 215 220
Gln Ile Leu Glu Leu Gln Tyr His Gly Gly Ile Ser Met Tyr Ile Met
225 230 235 240
Leu Pro Glu Asp Asp Leu Ser Glu Ile Glu Ser Lys Leu Ser Phe Gln
245 250 255
Asn Leu Met Asp Trp Thr Asn Ser Arg Lys Met Lys Ser Gln Tyr Val
260 265 270
Asn Val Phe Leu Pro Gln Phe Lys Ile Glu Lys Asp Tyr Glu Met Arg
275 280 285
Ser His Leu Lys Ser Val Gly Leu Glu Asp Ile Phe Val Glu Ser Arg
290 295 300
Ala Asp Leu Ser Gly Ile Ala Ser Gly Gly Arg Leu Tyr Val Ser Lys
305 310 315 320
Leu Met His Lys Ser Leu Ile Glu Val Ser Glu Glu Gly Thr Glu Ala
325 330 335
Thr Ala Ala Thr Glu Ser Asn Ile Val Glu Lys Leu Leu Pro Glu Ser
340 345 350
Thr Val Phe Arg Ala Asp Arg Pro Phe Leu Phe Val Ile Arg Lys Asn
355 360 365

a1 Cont

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370 375 380

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<212> DNA
<213> Mus musculus

<220>
<223> n is an unknown and may be any natural amino acid

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tccgtctghh srsrusrhth raauthruar guggtgctcg aggtgactgt gcacgtcaga 180
ttgacaaggc actgcacttt gyaaarggya scysaaargg nasysaauhs haacatacca 240
tcaagacaag gaaactcatc taataatcag ccaggactta snrsrarggn gyasnsrsra 300
snasngnrgy ucagtatcaa ttgaaaagag ttcttgctga cataaactca tctcataagg 360
ntyrgnuysa rgvauaaasa snsrsrhsys gattatgaac tcagcattgc cactggagtt 420
tttgcagaaa aagtctatas tyrguusraa thrgyvahaa guysvatyrg actttcataa 480
gaactacatt gagtgtgctg aaaacttata caatgctash hsysasntyr gucysaagua 540
snutyrasna aaaagtggaa agagttgact tcacaaatga tgtacaagat accagattty 600
svaguargva ashthrasna svagnasthr arghaaaatt aataaatgga ttgaaaatga 660
gacacatgga aagatcaaga agysasnyst rguasnguth rhsgyysysy sgtgttgggc 720
gacagcagcc tcagctcgtc ggctgtcatg gtgctggtgv augyassrsr usrsrsraav 780
amtvauvaaa cgctgtttac ttcaaaggca aatggaaatc ggccttcacc aagactasna 840
avatyrhysg yystryssra ahthrysthr gataccctca gttgccgttt taggtctccc 900
acgtgtcctg gaaaagtaas thrusrcysa rghargsrrt hrcysrgyys vagttaatat 960
gatgcatcaa gaacggcggt tcaatttgtc taccattcag vaasnmtmth sgnguargar 1020
ghasnusrth rgncagccac caatgcaggt tcttgagctc caatatcatg gtggcataag 1080
cgnrrmtgnv auguugntyr hsgygysrat gtacattatg ctgcctgagg atggcctatg 1140
tgaaattgaa agcaagmtty rmturguasg yucysgugus rysctgagtt tccagaatct 1200
gatggactgg accaatagga ggaaaatgaa ausrhgnasn umtastrthr asnargargy 1260
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vaasnvahur gnhysguysa sntatgaaat gacgcaccac ttgaaatcct taggcttgaa 1380
agatatcttt tyrgumtthr hshsuyssru gyuysashga tgagtccagt gcagatctct 1440
ctggaattgc ctctggaggt cgtctcasgu srsraaasus rgyaasrgyg yargutacgt 1500
atcaaagcta atgcacaagt cattcataga ggtctcagag gagtyrvasr ysumthsyss 1560
rhguvasrgu guggcactga agccactgct gccacagaaa ataacattgt tgaaaagcag 1620
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ccgaccgccc ctttctgttt gtcurgusrt hrvahargaa asargrhuhv aatcaagaag 1740
aatgacatca tcttatttac tggcaaagtc tcttgtccty sysasnasuh thrgyysvas 1800
rcysrtgaaa ttcgatttgg tttcctatac agtaacaggc atcaagaa 1848

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<211> 368
<212> PRT
<213> Mus musculus

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20 25 30

Gly Ala Arg Gly Asp Cys Ala Arg Gln Ile Asp Lys Ala Leu His Phe
35 40 45
Asn Ile Pro Ser Arg Gln Gly Asn Ser Ser Asn Asn Gln Pro Gly Leu
50 55 60
Gln Tyr Gln Leu Lys Arg Val Leu Ala Asp Ile Asn Ser Ser His Lys
65 70 75 80
Asp Tyr Glu Leu Ser Ile Ala Thr Gly Val Phe Ala Glu Lys Val Tyr
85 90 95
Asp Phe His Lys Asn Tyr Ile Glu Cys Ala Glu Asn Leu Tyr Asn Ala
100 105 110
Lys Val Glu Arg Val Asp Phe Thr Asn Asp Val Gln Asp Thr Arg Phe
115 120 125
Lys Ile Asn Lys Trp Ile Glu Asn Glu Thr His Gly Lys Ile Lys Lys
130 135 140
Val Leu Gly Asp Ser Ser Leu Ser Ser Ser Ala Val Met Val Leu Val
145 150 155 160
Asn Ala Val Tyr Phe Lys Gly Lys Trp Lys Ser Ala Phe Thr Lys Thr
165 170 175
Asp Thr Leu Ser Cys Arg Phe Arg Ser Pro Thr Cys Pro Gly Lys Val
180 185 190
Val Asn Met Met His Gln Glu Arg Arg Phe Asn Leu Ser Thr Ile Gln
195 200 205
Gln Pro Pro Met Gln Val Leu Glu Leu Gln Tyr His Gly Gly Ile Ser
210 215 220
Met Tyr Ile Met Leu Pro Glu Asp Gly Leu Cys Glu Ile Glu Ser Lys
225 230 235 240
Leu Ser Phe Gln Asn Leu Met Asp Trp Thr Asn Arg Arg Lys Met Lys
245 250 255
Ser Gln Tyr Val Asn Val Phe Leu Pro Gln Phe Lys Ile Glu Lys Asn
260 265 270
Tyr Glu Met Thr His His Leu Lys Ser Leu Gly Leu Lys Asp Ile Phe
275 280 285
Asp Glu Ser Ser Ala Asp Leu Ser Gly Ile Ala Ser Gly Gly Arg Leu
290 295 300
Tyr Val Ser Lys Leu Met His Lys Ser Phe Ile Glu Val Ser Glu Glu
305 310 315 320
Gly Thr Glu Ala Thr Ala Ala Thr Glu Asn Asn Ile Val Glu Lys Gln
325 330 335
Leu Pro Glu Ser Thr Val Phe Arg Ala Asp Arg Pro Phe Leu Phe Val
340 345 350
Ile Lys Lys Asn Asp Ile Ile Leu Phe Thr Gly Lys Val Ser Cys Pro
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a1 cont

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<400> 17
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<210> 18
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<210> 19
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<210> 20
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<213> Artificial Sequence

<220>
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<212> PRT
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<220>
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<212> DNA
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<212> DNA
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<223> n is an unknown and may be any natural amino acid

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<210> 25
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